FILE NOTATIONS

Entered in NID File .....✓.....
Entered on S R Sheet .....✓.....
Card Indexed .....✓.....

Checked by Chief .....PUB 12-18-73.....
Approval Letter .....
Disapproval Letter .....

COMPLETION DATA:

Date Well Completed 3-4-74

Location Inspected .....

OW..... WW..... TA.....
GW..... OS..... PA.....✓

Bond released
State or Fee Land .....

LOGS FILED

Driller's Log.....✓.....
Electric Logs (No.) .....✓.....
E..... I..... E-I..... GR..... GR-N..... Micro.....
Lat. Log..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [X]

2. NAME OF OPERATOR
Denison Mines Ltd.

3. ADDRESS OF OPERATOR
1660, 540 - 5 Ave. SW, Calgary, Alberta, Canada

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
564' FEL 3594' FNL Sec. 5, T21S-R14E
SE NE
At proposed prod. zone
Same

5. LEASE DESIGNATION AND SERIAL NO.
U-7694

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.
Denison Mines - Skyline Fed. 5-1

10. FIELD AND POOL, OR WILDCAT
WC

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
ST21S-R14E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
15 road miles west of Green River, Utah

12. COUNTY OR PARISH
Emery

13. STATE
Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
564'

16. NO. OF ACRES IN LEASE
2,386.67

17. NO. OF ACRES ASSIGNED TO THIS WELL
160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
6000'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4568 Gr.

22. APPROX. DATE WORK WILL START*
Jan 2, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	10 3/4"	32.75	250'	150 sks.
9 7/8	7 5/8	26.40	3000'	60 sks.
6 3/4	5 1/2	10.50	6000	200" (Prod. Str.)

Plan to air drill entire hole but prepared to go to gel based low solids mud if necessary. Use double ram hydraulic BOP and all regulatory safety equipment.

REQUEST - Exception to R C-3 regulation due to irregular Section 5 (about 8500' N-S).

Distr.: U. S. Geological Survey (3)
Utah Oil and Gas Conservation Commission (2)
Skyline Oil Company (1)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED G H Campbell TITLE Geological Engineer Opr. Representative DATE 10 Dec 74

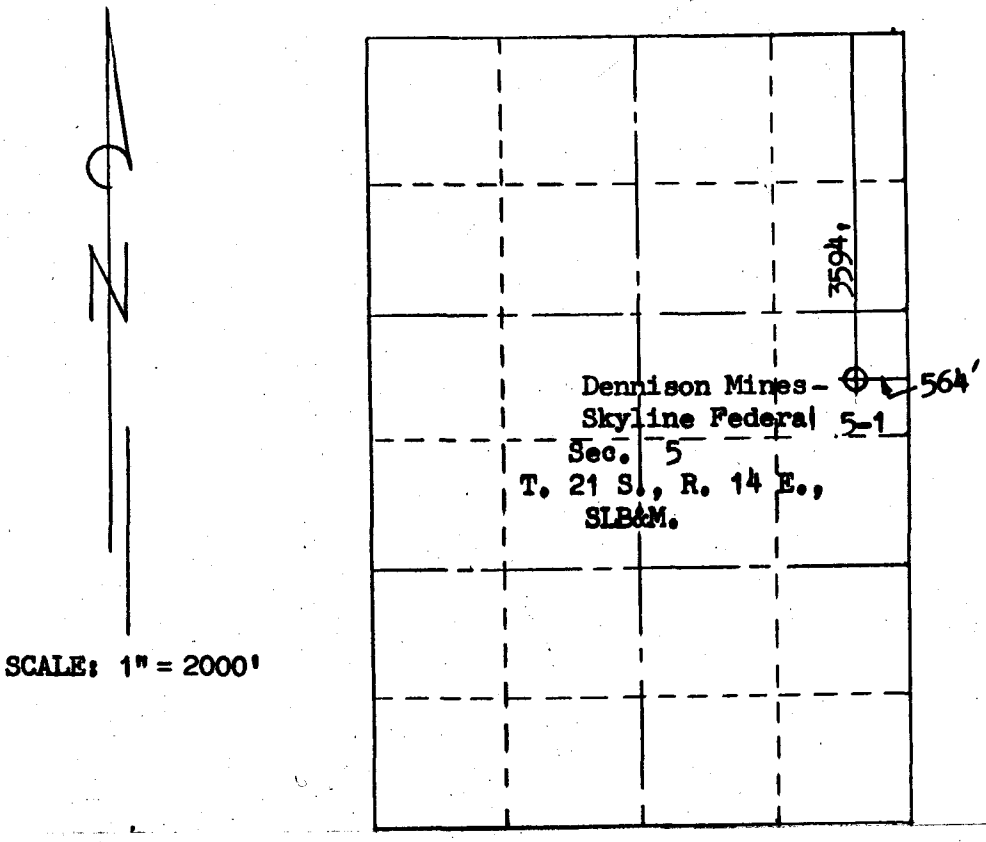
(This space for Federal or State office use)

PERMIT NO. 43-015-30013 APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



SCALE: 1" = 2000'

SURVEYORS CERTIFICATE

I, GEORGE H. NEWELL A REGISTERED LAND SURVEYOR AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH, HOLDING LICENSE NO. 1770, CERTIFY THAT THIS PLAT OF:

DENNISON MINES — SKYLINE FEDERAL 5 - 1

AND MORE SPECIFICALLY DESCRIBED AS FOLLOWS:

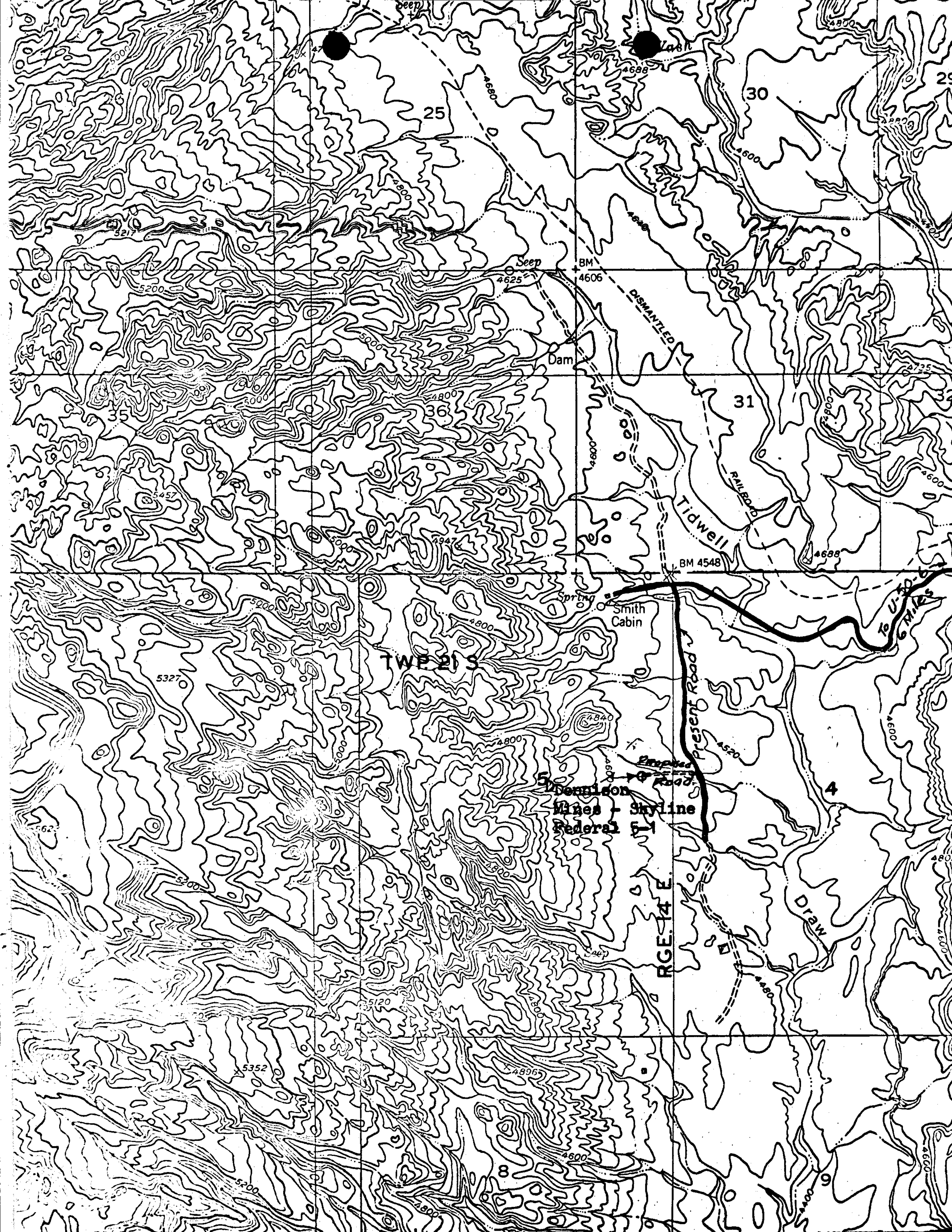
3594 feet from the North line and 564 feet from the East line of Section 5, T. 21 S., R. 14 E., SLB&M. Ground line elevation 4568.

IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

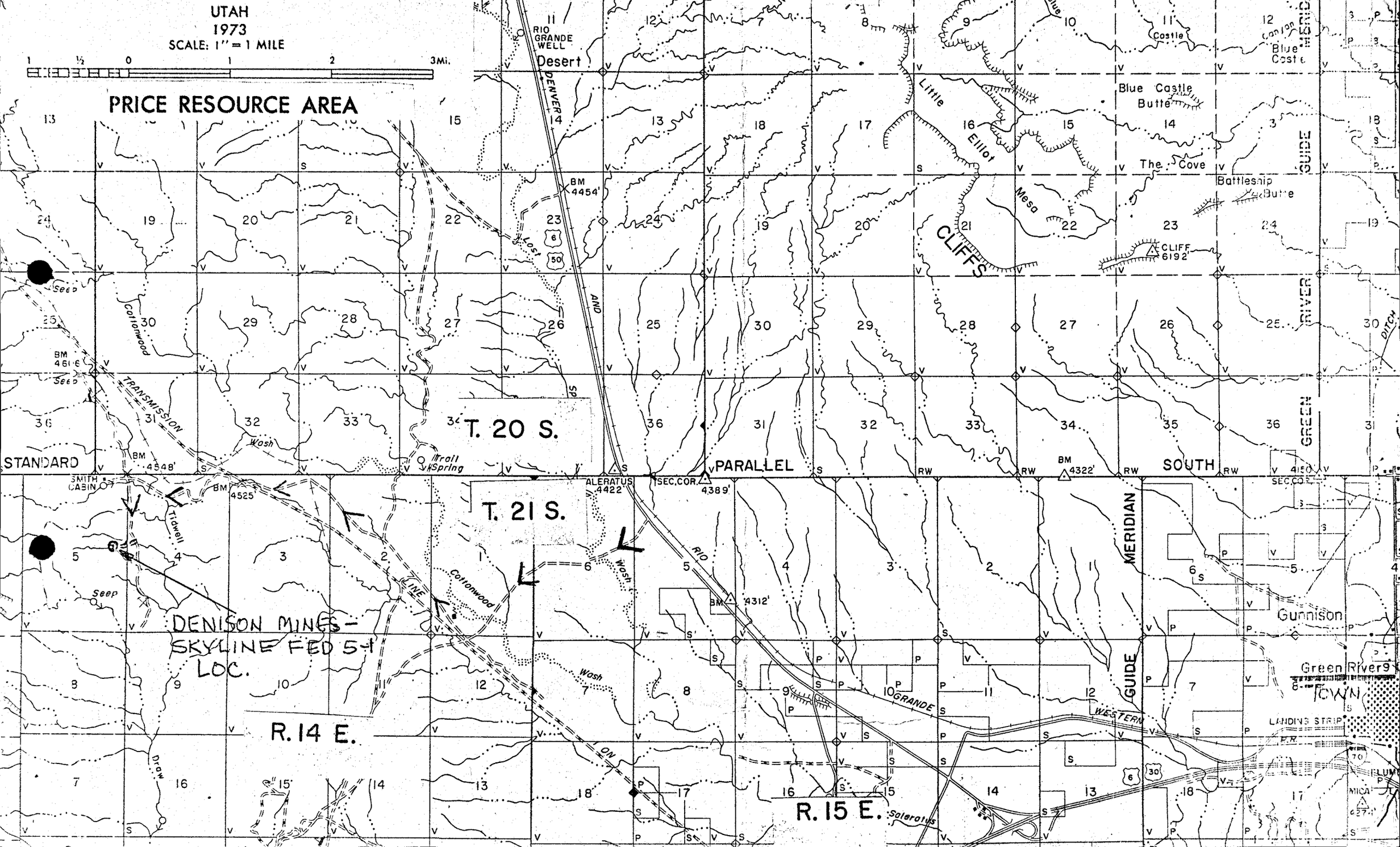
DATE December 5, 1973

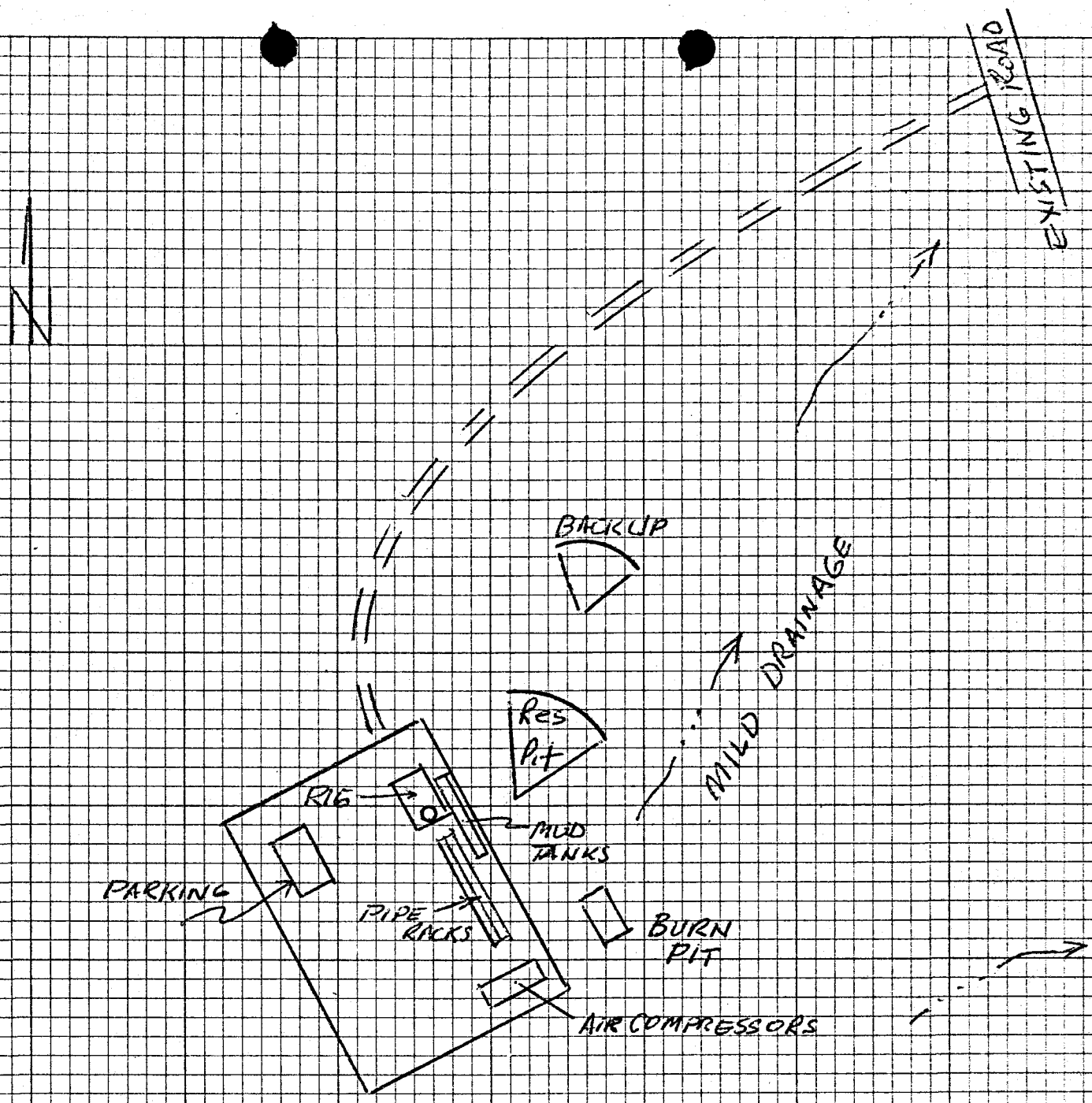
George H. Newell

GEORGE H. NEWELL



Seep
25
30
29
4680
4688
4600
4800
5000
5217
5200
Seep
4625
BM
4606
DISMANTLED
Dam
31
35
36
RAILROAD
Tidwell
5457
4947
BM 4548
4688
Spring
Smith
Cabin
to U-FD-6
6 Miles
TWP. 21 S.
5327
4840
Present Road
4520
Proposed
Road
5
Dennison
Mines - Skyline
Federal 5-1
4
RGE. 14 E.
Draw
4480
5120
5352
4896
8
9
4400


UTAH
1973
SCALE: 1" = 1 MILE
1 ½ 0 1 2 3Mi.
PRICE RESOURCE AREA
T. 20 S.
T. 21 S.
R. 14 E.
R. 15 E.
DENISON MINES -
SKYLINE FED 5-1
LOC.
STANDARD
PARALLEL
SOUTH
Desert
RIO GRANDE WELL
DENVER AND RIO GRANDE WESTERN
Blue Castle Butte
Little Elliot Mesa
The Cove
Battleship Butte
CLIFF 6192
CLIFFS
GUIDE MERIDIAN
GREEN RIVER DITCH
Cottonwood Wash
Trail Spring
Seep
SMITH CABIN
ALERATUS 4422'
SEC. COR. 4389'
BM 4454'
BM 4548'
BM 4525'
BM 4322'
BM 4312'
Gunnison
Green River
TOWN
LANDING STRIP
Soleratus



SCALE 1" = 100'

PROPOSED LOCATION

DENISON MINES-SKYLINE FED. 5-1
564' FEL & 3594' FNL Sec. 5, T21S-R14E
Emery Co., Utah

8 SQUARES PER INCH

(801) 355-8256
CONSULTING
RES. 649-8734
PARK CITY
PRODUCING OIL

LIFE MEMBER

GRAHAM S. CAMPBELL

CERTIFIED PROFESSIONAL GEOLOGIST 832 OF A.I.P.G.

1412 WALKER BANK BLDG. SALT LAKE CITY, UTAH 84111

December 10, 1973

U. S. Geological Survey
Conservation Division
8416 Federal Building
Salt Lake City, Utah 84111

Attention: Mr. Gerald Daniels

Re: Proposed Denison Mines - Skyline Fed. 5-1
564' FEL, 3594' FNL, Sec. 5, T21S-R14E, S.L.M.
Emery County, Utah
U.S.A. Gov't Oil and Gas Lease U-7694

12 Point Development Plan

1. Existing Roads - See attached 1973 BLM planimetric map showing pointers to an approach road from Highway 6 and 50.

2. Planned Access Roads - See same map on which last 1/4 mile to proposed location is dashed in.

3. Existing Wells - Nearest well abandoned, 3 miles northeast, Sec. 33, T20S-R14E.

4. Lateral roads to well locations. Not applicable.

5. Location of tank batteries and flow lines - when or if production is established, proposed tanks shown on location sketch attached.

6. Location and type of water supply - We plan to air drill but if water is needed the Green River water is to be used. Access just south of Green River town.

7. Method for handling waste disposal. See sketch map for reserve pit (for cuttings), back up pit, and trash pit. All to be restored to original contour unless needed for producing operation.

Continued -

8. No camps.

9. No airstrips closer than Green River town.

10. Location of rig; mud tanks, pipe racks, pits, etc. See sketch map attached.

11. Restoration - The Carmel shale will be re-molded to original configuration with particular attention to minimizing subsequent erosion.

12. Environmental data - Area is arid, very low vegetation yield and/or animal density potential. Because of gypsum, subject to locally heavy erosion.

* * * * * * * * * * * *

Comments - Location placed about 100' east of center line of 40 to minimize surface disturbance.

Submitted by,

Geological Engineer
Certified Professional Geologist #832
Operator's Representative

GSC:gb
Enc.

Distr.: U.S.G.S. (3)
U.O.G.C.C. (1)
Denison Mines (3)
Skyline Oil (1)

December 12, 1973

Denison Mines Ltd.
540 - 5 Avenue S.W.
Calgary, Alberta
Canada

Re: Well no. Denison Mines -
Skyline Federal 5-1
Sec. 5, T. 21 S, R. 14 E,
Emery County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-015-30018.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey

PHONE 801 355-8256

GRAHAM S. CAMPBELL

OIL OPERATOR

1412 WALKER BANK BLDG.

SALT LAKE CITY, UTAH 84111

December 19, 1973

U. S. Geological Survey
8426 Federal Building
125 South State Street
Salt Lake City, Utah 84111

Addenda to Application to Drill and
12 Point Environmental Plan re:

Denison-Skyline Federal 5-1
Sec. 5, T21S-R14E, S.L.M. U-7691

Gentlemen:

Response to recent memo dated 12-11-73 follows:

1. Surface casing 10 3/4" O.D. 32.75# J-55 new. Circ. cement to surface. W.O.C. 8 hours.

2. Bradenhead 10" A.P.I. 3,000 psi 10 3/4 8 RT OCT-C 22 Casinghead with 2 - 2" LP openings.
Csg. Hanger 10" x 7 5/8" OCT C-22 3,000 psi

3. Plan to run 1300' 7 5/8" LT & C K-55 CF & I API blk. smls. casing R-3 used (in hole 4 days - power tongs torque control used). Follow 1300' with change over coupling and 1700' 7 5/8" ST & C K-55 new csg. Cement with 100 sks. Hang in tension in casing hanger (above). Will be hooked up with 2" XHD line into Bradenhead with 3,000 psi valve and XHD bullplug.

4. Blow Out Preventer - Hydraulic
Double ram 10" - 900 lower flange, studded, with new gauge ring. Upper flange same. 3,000 psi WP. 5,000 psi test. Shaffer KC Mod. 50. Fillup, kill and choke lines and all valves 3000 psi minimum W.P.

Rotating BOP - Shaffer 900 series 3,000 - 5,000 psi flanged into lower BOP with studs and gauge ring.

5. Floor valve - sub to fit 4 1/2" FH box on H-90 drill pipe with 4" full opening valve 3,000 psi min. test.

Kelly Cock - B.J. 5,000 psi min. between Kelly and swivel. Safety chain on hose at all times.

Baker bit float - 5,000 psi test in 6 1/4" drill collars.

Baker string float - on standby to fit 4 1/2" DP tool joint.

6. This is a wildcat. No reason to expect more than commensurate hydrostatic head of 9.5 lb./gal. mud @ various depths, i.e.
125 psi at surface casing shoe @ 250'
1500 psi @ intermediate casing shoe @ 3000'
3000 psi @ T.D. (possible 5 1/2" shoe) @ 6,000'

It is intended to air/mist drill this well as long as practical, thus relieving hydrostatic head at the bit and accordingly reducing lost circulation probabilities. If, however, water, sloughing or other problems arise, all provisions for mudding up will be on location as a control measure. Low solids type mud (9.5 lb.) will be used.

Whenever or wherever crooked hole signs arise, tungsten carbide spiral type stabilizers will be used.

Submitted by

Geological Engineer

GSC:gb

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Denison Mines Ltd.

3. ADDRESS OF OPERATOR: 1500 - 444 - 5th Ave. S.W., Calgary, Alberta T2P, Canada

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

564' FEL 3594 FNL Sec. 5, T21S-R14E (lot 9, SE NE)

5. LEASE DESIGNATION AND SERIAL NO.: U-7694

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: Denison Mines-Skyline Fed. 5-1

10. FIELD AND POOL, OR WILDCAT: W

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5/21S/14E

12. COUNTY OR PARISH: Emery

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4568 Gr.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	X	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Due to casing shortage plans altered to:

drill 12 1/4" air hole to 250'
run 250' 9 5/8" 32.30# H-40 casing ST & C New,
R-2 w/guide shoe and centralizer, 140 sk cement.
WOC 8 hrs.

Drill out w/ 7 7/8" air/mist to T.D. or mud up.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION
DATE 1-8-74
BY C.B. Feight

Dist: U.S. Geological Survey (2)
U.O.G.C.C. (1)

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Opr. Repr. Petl. Engr. DATE

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator Denison Mines, Ltd. (lot 9) Representative Graham Campbell

Well No. 5-1 Located SE ¼ NE ¼ Sec. 5 Twp. 21 S Range 14 E

Lease No. U 7694 Field W.C. Emery Co. State Utah

Unit Name and
Required Depth None Base of fresh water sands None noted

T.D. 6000 Size hold and Fill per Sack 6 1/4 " 1 ' Mud Weight and Top _____ #/Gal. ____ '

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements From	To	Sacks Cement
9 5/8	261	Circ		3100	2900	50 sx
7 5/8	1706	circ		2100	1900	50 sx
				1800	1600	35 sx
				cut off 7" below top 9 5/8 to recover csg hngr.		
				20 sx @ surface w/ mkr.		

Formation	Top	Base	Shows
Sinbad	2070		
Kaibab	2370		
WhiteRim	2425		
ElephantCyn	3070		
Hermosa	5255		
Molas	5700		
Mississippian	5824		

Remarks

DST's, lost circulation zones, water zones, etc. Brackish water flow in WhiteRim @ 2910

Approved by [signature] Date 3/3/74 Time 9:00 A.M. ~~P.M.~~

State O & G.

Form 9-330
(Rev. 5-68)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-7694

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME:

9. WELL NO.: Denison-Skyline Fed. 5-1

10. FIELD AND POOL, OR WILDCAT: W

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 5, T21S-R14E

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Denison Mines Ltd.

3. ADDRESS OF OPERATOR: 1500 - 444 - 5th Ave. S.W., Calgary, Alberta T2P 28T, Canada

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 564 FEL 3594 FNL, Sec. 5, T21S-R14E
At top prod. interval reported below
At total depth

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH | 13. STATE

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8 Jan. 1974	Mar. 1, 1974	Mar. 4, 1974	4568 G	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6000			→	All	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, BHC-GR, FDC-GR

27. WAS WELL CORED:

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32.30	261 K.B.	12 1/4"	108 Cu. Ft. slurry	None
7 "	23#	1706 K.B.	8 3/4"	550 Cu. Ft. slurry	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Complete daily drilling report w/tops, D.S.T.'s, etc.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. A. Campbell TITLE Geol. Engr. - Agent DATE

*(See Instructions and Spaces for Additional Data on Reverse Side)

Request information copy of approval sent to Campbell, 412 Walker Bank Bldg. Salt Lake City, Utah 84111

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			See attached daily drilling report for all data requested, plus additional data.
			Distribution: Denison 1 copy U.S.G.S. 2 copies U.O.G.C.C. 1 copy Skyline Oil 1 copy

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-7694

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER: P & A

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Denison Mines Ltd.

8. FARM OR LEASE NAME: Denison-Skyline

3. ADDRESS OF OPERATOR: 1500 - 444 5th Ave., Calgary, Alberta T2P 2T8, Canada

9. WELL NO.: Fed. 5-1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 564' FEL 3594' FNL Sec. 5, T21S-R14E

10. FIELD AND POOL, OR WILDCAT: W

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5/T21S/R14E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4568 G. 4577 K. B.

12. COUNTY OR PARISH: Emery

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

9 5/8" - 32.30# H-40 set at 249' G. cmt. circ. to surf.
7" used set @ 1695' G. cmt. w/550 cu. ft.

Plugs set:

50 sks.	3100 - 2900
50 sks.	2100 - 1900
50 sks.	1800 - 1600

cut off 7" below 9 5/8". Filled 9 5/8" w/cement. 20 sks.
then screwed thrd. protector on w/regulation dry hole
marker welded to plate. Prep. to restore location and pit surfaces.

18. I hereby certify that the foregoing is true and correct

SIGNED G. S. Campbell TITLE _____ DATE March 20, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

* Please reply to G. S. Campbell, 1412 Walker Bank Building, Salt Lake City, Utah 84111 - info to Denison

*See Instructions on Reverse Side

WELL REPORT

Denison Mines Ltd. - Operator

Denison-Skyline Federal 5-1

T21S-R14E, S.L.M., Emery County, Utah

Sec. 5: 564' FEL 3594' FNL

Ele. 4568 G. 4577 K.B. T.D. 6,000'

Interested parties besides Operator - Skyline Oil Company (farmor)

Prime Contractor - Barker Drilling and Well Service - Pusher, Vern Powers; Air Contractor, Western Air Drilling with Jerry Smith

Opr. Representative - G. S. Campbell

Spud - January 8, 1974
Completed drilling 2200 Hr. March 1, 1974

Status - P & A March 4, 1974

Cores - none; D.S.T.'s - 2 - see Daily Drilling Report for March 3 and 4

Mud - Magcobar

E. Log tops - See Daily Log for March 2.

Geologic Wellsite Attendance - P. R. Peterson with the mechanical assistance of gas detecting or mud logging equipment leased from Rocky Mountain Engineering Co.

Logs - In addition to the detailed litholog prepared by Peterson which includes drilling rates and other detail, DIL, BHC-GR, FDC-GR, CLN were run from 6,000 to casing shoe (1607').

GRAHAM S. CAMPBELL

MEMBER

CERTIFIED PROFESSIONAL GEOLOGIST 832

Sample Program - 20' samples 0 - 1000' and 10' samples from 1000 - T.D. One dry envelope cut placed in Utah Geological Survey depository and bagged (wet) cut shipped to Amstrat in Denver, Colorado.

Operational Difficulties - Casing shortages dictated drilling prognosis.

Water at 60 feet in Carmel gypsum resulted in crater like blow out from air drilling. Mudded up and had serious lost circulation in surface hole.

Wingate water upwards of 600 bbls./hr. exposed to water sensitive Chinle shale necessitated running 7" casing @ 1706.

White Rim water volume too large to mist drill. Finally reached successful combination of aerating formation water with one compressor, one booster and rig pump wasting 250 bbl./formation water/hr.

Bit record - See daily drilling log for January 31, February 20th, and March 4th.

Geologic Comments and Correlations - The prospect and drilling effort purports to bracket Paradox Basin shoreline environment where reefing and/or reservoir building is most likely. Together with pre-Pa objectives, Mississippian reefing as found in the Toledo well (2.75 mi. NE) was the deepest objective.

400 feet of shoreward Pennsylvanian thinning from the Toledo well was found as predicted. The several hundred feet of salt in the Toledo well was accordingly absent. Porosities were comparatively excellent in the Pa section. The Mississippian reefing was absent.

Geologic Comments and Correlations - cont'd

Shows were scattered throughout the Pa rocks but meager at best.

Correlations after Reed G. Spjut of Skyline are as follows

	This well 5/T21S/R14E	Toledo Well 33/T20S/R14E
Ismay	4268	5580
Desert Creek	4545	5981
Desert Creek base	4799	6197
Log Marker	5020	6350
" "	5115	6532
Low Hermosa ?	5400	6808
Marker	5726	7168
Mississippian	5822	7330

Permits, Government Requirements, etc. - after

Daily Drilling Report

Daily Drilling Report - follows

Daily Drilling Report

Denison Mines-Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

4 January 1974 - Finishing moving in

5 January 1974 - Rig up - (another snow storm)

6 January 1974 - Call from tool pusher (Vern Powers). Should spud 7th if weather holds off. I called for standby mud in case needed for top holes. Casing on location O.K.

7 January 1974 - Finished rat hole and mouse hole

8 January 1974 - SPUD 1:00 a.m. 12 1/4 RR w/air mist. Drilling @ 8:00 a.m. @ 61' w/2 stabilizers and 1 - 6 1/4" DC. Moist. Hard. Drilled to 101'.

9 January 1974 - Water incr. washing out crater under rig. Shut down to mud up. Need more water. Wait on water truck. Finally lined up 2nd hauler. Resumed mud drilling. Losing circulation. Survey @ 68' 1/4°.

10 January 1974 - Survey 68' 1/2° 120' 1/4°. Losing circulation.

Summary - 10:00 a.m. @ 150'. Have lost 900 bbls. mud to formation fractures.

54 sks. LCM 120 jel.

Return mud quality good. 11:00 a.m. ordered Dowell RFC (Thixotropic) 300 cu. ft. cement w/100' 1" L.P. prep. to set plugs or use to cement 9 5/8".

Daily Drilling Report - cont'd

Denison Mines-Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

10 January 1974 (cont'd) - Mixing mud and LCM @ 144'. Losing circulation regularly. Survey 120' 1/4°.

11 January 1974 - Mixed mud and LCM. Drilled to 212'. Total 1800 bbls. mud lost to formation. Spotted 50 sacks RFC (Thixotropic) plug @ 212 @ 4:45 a.m. Fair returns. WOC 6 hours. Found top of plug 50 off bottom. Set plug #2 50 sk using 95° F. mix water @ 162'. @ 11:45 token returns. WOC 5 hrs. Tag top @ 137' (25' plug). Ran 50 sk plug #3 down at 1745 hrs. No returns. WOC 5 hrs. Tag top of plug @ 129' (8' plug). Ran plug #4, down @ 2330 hrs. Full returns. WOC 5 hrs.

12 January 1974 - Tag top plug #4 @ 114' (15' plug). Ran plug #5 down @ 600 hrs. Full returns. WOC 5 hrs. Tag top plug @ 50'. Ran plug #6, down @ 1100 hrs. Full returns. WOC 6 hrs. (Snowing last 12 hrs.) Tag plug @ 25'. Drilling out plugs @ 1700 hrs.

13 January 1974 - Finished drilling plugs to 212' w/full returns. Came out of hole. Ran bit #2 (12 1/4") Smith new. Put on 2 stabilizers. Had to ream from 20'. Finished reaming 1000 hrs. Started losing mud @ 224'. Survey @ 215' 1 1/2°. Lost 200 bbls. mud while drilling to 265'.

14 January 1974 - Finished surface hole 100 hr. Ran 8 jts. (249.70' net) 9 5/8" 32.30 new H-40 casing. Landed at 261' K.B. Welded guide shoe and first collar top and bottom. Cemented with 80 sacks (112 cu. ft.) RFC (Thixotropic) in 80 degree F. mix water followed by 80 sacks (96 cu. ft.) Class G cement with 2% CaCl and 2% NaCl. Full returns throughout but no cement to surface. Ran 1" LP to 140' in annulus. Pumped 80 sacks. Token returns. WOC 0715 hr. to 1100 H. Circ. annulus through 1" LP to tag top plugs at 134'. Ran 25 sk. plug neat throng 1" at 1300 H. WOC 4 1/2 hours. Tag top of plugs @ 100'. Pumped 150 sks (210 cu. ft.) RFC full returns throughout. Plug down @ 1930 hrs. WOC. Released Dowell 2330 hrs.

15 January 1974 - Nipple up to air drill. Drill out with Reed mill tooth (W-7 type) Bit #1 (7 7/8") @ 1500 hrs. Surveys 300' - 2°, 400' 1 3/4°. Air drilling with 12000# 45 RPM 12'/hr.

Daily Drilling Report - cont'd

Denison Mines-Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

16 January 1974 - RTNB @ 282'. Ran bit #2 (7 7/8") Smith S-5. Drilling @ 520' 12'/hr. making water.

17 January 1974 - Mist drilling on Bit #2 @ 709'. Survey @ 600' 1 3/4 degree. Building additional pits. (23 hrs. drilling, 1 hr. surveys)

18 January 1974 - Shut down @ 966' waiting on booster (broke down 0500). Survey 870' - 2 1/4°. Making more water. Building more pits. Pulled bit while waiting. Ran Reed button YCM 5 Bit #3 (7 7/8"). Bit #2 566' 43 hours, out of gauge 1/8". Running Grant near bit roller type stabilizer and Grant integral blade 30 feet above. Shut down for booster 8 hours.

19 January 1974 - Mist drilling @ 1168 on Bit #3. 6 - 10000# 45 RPM. # WEN Gardner Denver Air Compressors rated 600 CFM and 1 booster. Survey 1126' - 3°
CHINLE SAMPLE TOP 1304'

20 January 1974 - Misting @ 1400' on Bit #3. Survey 1346' - 3 1/2° (23 hr. drilling and 1 hr. survey)

21 January 1974 - Survey @ 1662 - 3 1/2°. Misted to 1693 on Bit #3. RTNP @ 1693. Bit #3 727' 74 hrs. Ran #4 Smith 5JS rebuilt.

22 January 1974 - Misted to 1790'. Started sloughing on last trip and sticking on connection at 1758 and 1788. Blew hole clean. Came out of hole - sticking. Preparing to mud up @ 1790'.

Note - Cumulative mud cost to date $2919.

Released 1 compressor and mist pump. Began mixing mud and LCM.

23 January 1974 - Mixed 9 pits mud @ 200 bbls./pit by 1500 hrs. Getting partial returns on 9th pit. Ordered Grant rotating head preparing to aerate mud.

Daily Drilling Report - cont'd

Denison Mines-Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

24 January 1974 - Continued to mix mud @ 150 vis 40% LCM (total 12 - 200 bbl. pits in last 30 hrs.) Getting 30 - 50% returns of mud. Start nipple up to aerate mud at 0800 hrs.

Set Grant Rotating head and aerator chamber with welder.

25 January 1974 - Worked to bottom aerating nip and tuck making large water volume or losing mud (water) with varying amounts air. 240 feet fill up. Plugged bit at 1550 second time. Made it to T.D. (1790) 2100 hrs. Tracer logger on location. Came out to log.

26 January 1974 - Ran tracer (radioactive isotope) log. Established loss zone @ 860' K.B. No loss below. Possible minor loss as high as 810'. Also ran gamma ray 1500 - 260 and caliper same interval.

27 January 1974 - Started reaming to 8 3/4 with W7J Hughes Bit #5. RT 450'. Found out of gauge. Ran down hole reamer with Bit #6, STC L4R. Reaming with aerated water

28 January 1974 - Reamed to 820' on Bit #6, with 3 - 4000# 50 RPM.

29 January 1974 - RTNB @ 820'. Ran Bit #7, STC 5JS. Reamed to 1600'.

30 January 1974 - Reamed to 1750'. Started out. Sticking first 3 stands off bottom. Came out. Mixed pit 60 vis mud. Went back to spot on bottom. Had to wash down last 180 feet. Used all mud washing to 1750. Started out, almost stuck. Used Kelly etc. came out laying down DP and DC. Prep. to run 7" casing.

31 January 1974 - Ran 42 jts. 7" 23# R-3 ST & C 8 rd. used casing. Landed @ 1706 KB w/notched collar welded on shoe, baffle one jt. up, first collar welded. Casing down @ 0200.

Ran 170 cu. ft. Halliburton lite, 2% NaCl 3% CaCl plus 380 cu. ft. 50-50 pos 2% NaCl 3% CaCl. No returns expected nor received. Bumped plug 0300. Pressure increase on pump gauge. Incr. last 15 min. to 800 psi. WOC.

BIT REVIEW

#	Co.	Size	Type	Depth out	Ft. Cut	and Hrs.	
Surf.	STC	12 1/4	K2P	144	144	27	air
Surf.	"	"	K2J	265	121	17½	mud
1	Reed	8 3/4	Y31G	400	135		mist
2	STC	"	F5	966	566		"
3	Reed	"	SCM5	1693	727		"
4	STC	"	5JS	1790	97		"
5	STC	"	F4	1790	0	0	"
6	HTC	"	W7J	568	307	25	Ream air/ water
7	STC	"	L4HJ	840	272	23	Ream air/ water
8	STC	"	5JSRR	1750	910	?	air/ water
9	Reed	6 1/4	YS1	1792	130	4	mist
10	STC		F4	2450	658	42	Dust and mist

Dennison Mines, Ltd. Skyline Fld #5-1

FORMATION TOP REVIEW

Navajo sandstone	154'
Chinle shale	1230
Mossback sandstone	1450
Shinarump	1505
Moenkopi	1565
Sinbad limestone	2067
Moenkopi (l.) shale	2190
Kaibab limestone	2367
White Rim sandstone	2430
Drilling in White Rim @	2525'

Daily Drilling Report - cont'd

Denison Mines-Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

1 February 1974 - Drilled plug and old hole w/Bit #9 6 1/4 Reed YSI misting to 1792'. RTNB @ 1792 for Bit #10 S.T.C. F-4 w/Grant bott. hole reamer, integral bladed stabilizer at 30', 10 - 4 3/4" drill collars and 3 1/2 IF drill pipe. Blew hole 3/4 hr. to dust. Dusting @ 1850.

2 February 1974 - Survey 1700' - 3 1/2°, 1940 - 4°. Dusted on Bit #10 to 2130'. Wet. Start misting.
Sinbad top 2065'
Sand in Sinbad zone @ 2130 had dead oil scum.

3 February 1974 - Survey @ 2200 5°.
Kaibab @ 2367'.
White Rim sand @ 2430'.
5 - 600 bbls water/hr. @ 2430. Required 950 psi on booster to circulate. Prep to aerate @ 2450'. Out of hole. Removed stabilizer.

4 February 1974 - Aerating on Bit #11 STC F-7 w/700# on booster and two compressors. Using formation water only. 550# on rig pump.
Aerating water at 2500'.

5 February 1974 - RTNB @ 2581. Ran Bit #12 Reed FPCH5. Ran jet sub @ 800'.
Survey 2370 5 1/2°.
Aerating @ 2600' w/700# booster and 550 rig pump w/formation water. Excess water 2 - 300 bbls./hr.

6 February 1974 - RTNB 2720. Ran Bit #13, STC SS5. (Bit 12 made 239' - 29 hrs.) in White Rim sand and quartzite.

7 February 1974 - Aerating @ 2804 on Bit #13. RTNB @ 2858. Ran Bit #14 Reed F72J. Bit #13 cut 139' 26 1/4 hrs.

8 February 1974 - Compressor breakdown. 10 hrs. repair and wait on parts from Grand Junction. Developing scale in drill string.

9 February 1974 - Aerating @ 2950 in White Rim quartzite. Came out of hole 300' to check for drag and run survey. No drag. Survey tool would not go through calcite scale in drill collars. Could not find smaller OD tool. Ordered 2" ID DC. Survey 2660 8 1/2° (300' off bott.). Wait on DC from Vernal.

Daily Drilling Report - cont'd

Denison Mines-Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

10 February 1974 - Came out of hole @ 2963 Change out D.C. Ran Hughes J-55 Bit #15. No reamer, bladed stabilizer @ 60'. Took wt. at 2634'. Worked to bottom. No fillup. Drilled Kelly down to 2975'. Survey at 2965' 12° plus.

Treating for scale at rig pump suction.

Aerating @ 2985' in quartzitic sand with two compressors, booster (750 psi), rig pump (450 psi) and formation water. Still making excess of 250 bbl./hr. est.

Top Cutler formation 2992'.

11 February 1974 - Aerating in Cutler shale @ 3050' on Bit 15. Survey 3020 12° RTNB 3110. Ran Bit #16 HTC OWCJ. Bit 15 cut 122', 25 3/4 hrs. Survey 3090 12°. Running 1 bladed stabilizer @ 60' only.

12 February 1974 - Aerating @ 3126 on Bit #16. Top Elephant Canyon (Permian Carbonates) 3093'. Using one compressor and one booster plus rig pump.

RTNB @ 3145'. Bit #16 cut 61' in 13 hrs. Ran Reed FPCH 6 Bit #17. Survey 3159' 11 3/4°. Ran 10 more D.C. Now running 20 D.C. 2" I.D. Treating for scale and oxidation.

13 February 1974 - Aerating @ 3192'. Arranged for a Christensen Diamond bit.

14 February 1974 - RTNB @ 3317. Bit 17 cut 172' - 37 1/2 hr. Ran Bit 18, Reed FPCH 5. Survey 3300 - 10°.

15 February 1974 - Aerating with formation water @ 3440 on Bit #18 in Pm Carbonates (Elephant Canyon). RTNB 3450. Survey 3445 - 8°. Ran Bit #19 STC F-5

SHOWS in dolomitic sandy limestones with minor visible porosity @:

3270 - 80	weak
3280 - 90	V. weak
3350 - 70	V. weak
3410 - 20	fair
3420 - 30	weak
3460 - 70	V. weak
3470 - 80	weak
3510 - 20	fair
3520 - 30	weak

Daily Drilling Report - cont'd

Denison Mines - Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

16 February 1974 - Aerating with 1 compressor, 1 booster and rig pump. Making approximately 200 bbls./hr. excess water. Survey 3570 - 8°. Survey 3777 - 8°.

17 February 1974 - Aerating @ 3880' on Bit #19. Drilling break @ 3825 - 40 back to 2"/ft. in surcose lst. No show.

At this horizon well running 400' high to Toledo well (2 3/4 mi. north east) and stratigraphic thinning since Permian Carbonates (3093) has been 40'. No show in break.

RTNB 3989. Bit #19 cut 449' 38 3/4 hrs. Ran Bit #20. STC F-5.

18 February 1974 - Aerating @ 4004'. Survey @ 3980' 8°.

Daily Drilling Report - cont'd

Denison Mines - Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

19 February 1974 - Aerating @ 4211 on bit #20. Survey 4238 - 8°. Formation water sample taken at 4250 depth.

Ph	8.0
Pf	0.0 cc
Mf	2.5 cc
Cl--	8000
Ca++	2760 ppm

20 February 1974 - RTNB 4435 Bit #20 made 446' 46 1/2 hrs. Ran STC FC 5 Bit #21. Repair rig 4 hours while out of hole. Derrick still settling on east side. Very windy. Back in hole very slowly. Survey 4435 - 8°.

Show review below 3520.
3540, 3595, 3610, 3755, 3855, 3875, 95,
3905, 15, 40, 55, 75, 85, 90, 4005, 45, 85, 90, 95
4110, 25, 35, 50, 60, 70, 85, 95, 4210, 4360, 85,
4405, 20, 4565, 75, 85, 95.

Correlations:

At 3825, running 1025' high to Toledo well
At 4525 Black Shale. Equivalent to:

Toledo well	5880'
Woodside Fed. 8-1	5870'
Black Dragon	1700'
GRD 24-1	5480'

Comments - Anhydrite and gyp zone at 4450-90 probably equal to first salt in Toledo well @ 5700', thus indicating 180' of thinning between 3825 and 4450 as compared to the Toledo well.

BIT REVIEW - cont'd

#	Co.	Size	Type	Depth out	Ft. Cut	Hrs.
11	STC	6 1/4"	F7	2481	131	25 1/2
12	Reed	"	FCH 5	2770	239	29
13	STC	"	SS 5	2859	139	26 1/4
14	Reed	"	F72 J	2964	105	27
15	HTC	"	J-55	3086	122	25 3/4
16	HTC	"	OWC J	3145	59	13
17	Reed	"	FCH 5 J	3317	172	37 1/4
18	Reed	"	FCH 5 J	3540	223	28 3/4
19	STC	"	F 5	3889	449	38 3/4
20	STC	"	F 5	4435	446	46 1/2
21	STC	"	FC 5			

21 February 1974 - Aerating in Pa evaporites @ 4575 on Bit #21 with 20000# bit out, 500 rig pump press, 500# on booster and using one compressor.

Daily Drilling Report - cont'd

Denison Mines - Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

22 February 1974 - Had distinct drilling break 4762 - 75 down to 2 min./ft. from 7 min./ft. Circ. sample. No show in limestone or dolomite. Globs of drill collar dope (?) confused. No gas on detector. Decided it was salt.

Aerating @ 4800'
Levelled derrick. Crew from Duchesne.
RTNB 4864'. Bit #21 cut 429' 37 hours.
Ran #22 STC SS 5

23 February 1974 - Aerating @ 4946 on Bit #22 with one compressor, booster (500 psi), rig pump (525 psi) with formation water from White Rim sandstone. Excess water averaging 255 bbl./hr.
Water sample taken @ 4800' depth:
32,000 ppm Cl--
52,800 ppm NaCl

24 February 1974 - Aerating @ 5195 on bit 22.
RTNB @ 5296

25 February 1974 - Bit 22 cut 432' 41 1/2 hr. Ran STC F-4 #23.
Survey 5296 - 8°
Diamond bit on location (Christensen)
Searching for more 6 1/4" insert bits.

26 February 1974 - Aerating @ 5450 on Bit #23. RTNB 5444.
Bit 23 cut 159' 21 1/2 hr.
Ran Bit 24 STC F-4

27 February 1974 - Aerating @ 5576 on Bit #24. Small show in limy dolomite @ 5510 - 20. Tite fluorescence after dry in chlorothene.
Litho marker. Pink siltstone @ 5590'. Molas ?

28 February 1974 - RTNB 5723'. Bit 24 cut 268' 37 1/2 hr. Ran #25 Sec S-88. Miss. sample top 5726'. White chalky limestone. Calcite xls. Soft. No show.

1 March 1974 - Aerating in Miss. ? @ 5870 on bit 25. T.D. 6,000 2200 hr. Cleaned hole 1/2 hr. Came out to E Log. Released Mud Logger.

Denison Mines-Skyline Fed. 5-1

Daily Drilling Report - cont'd

Denison Mines-Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

2 March 1974 - Ran DIL, BHC - GR, FDC - GR, CLN. E log depth 5997'.
Release Air Compressor 0900
Trucked mud materials off location.
Analyzed logs. Decided to test two zones as precautionary measures.
Wait on windstorm to go back in hole 8 hr.
Wait on tester.

E Log Tops:

Sinbad limestone	2070	
Lower Moenkopi	2170	
Kaibab limestone	2370	
White Rim sandstone	2425	
Cutler ark.	2990	
Elephant Cnyn.	3070	
Pa	?	
Pa Hermosa (1)	5255	
Molas	5700	
Mississippian	5824	(-1247)
T.D.	6000	

The "SALT" @ 4762 - 75 turned out to be some kind of sand. Either dolomite, limestone, anhydrite. Not bedded salt. Water wet.

3 March - 1974 - D.S.T. #1 4335 - 4299 (40')
Upper Hermosa Straddle test
I.O. 5 min. (0600 H.)
ISI 1/2 hr., F.O. 1 hr. FSI 1 hr. Sli blo to mod blo in 5 min. held throughout F.O. NGTS. Rec. 1700' brackish water. Top chrt pressures:

I.H. 1754#	F.H. 1754
I.F. 83 to 166	
I.S.I.P. 1726	F.S.I.P. 1684
F.F. 221 to 800	

Conclusion - Effective test. Non commercial.
E log analysis misleading. Fluid level in hole 300' approx.
Small leak in drill pipe above tool.

Daily Drilling Report - cont'd

Denison Mines-Skyline Fed. 5-1
T21S-R14E, Emery County, Utah

D.S.T. #2 3855 - 3815 (40')
Upper Hermos (Ismay?) Straddle test.

I.I. 5 min. 1520 hr., ISI 1/2 hr., F.O. 1 hr., F.S.I. 1 hr. Mod. to fair blow in 5 min. held throughout F.O. N.G.T.S.

Recovered 520' brackish water and 357' of sli gas cut formation (salty) water.

Top chart pressures:

I.H. 1554#	F.H. 1554
I.F. 69 to 97	
I.S.I.P. 1517	F.S.I.P. 1434
F.F. 124 to 263	

Conclusion - Test was effective even with small drill pipe leak. Zone non commercial.

Secured U. S. Geological Survey approval to plug.

E Log analysis comments - None of the 40 50 minor shows detected in samples indicated favorable hydrocarbons/water ratio nor porosity above 5%. The two zones tested: D.S.T. #1 Zone up to 20% porosity (4368) and only 41% Sw using a .1 Rw. There were no shows in samples but was a drilling break. D.S.T. #2 zone had no sample shows either. 8% porosity and 52% Sw. Very pronounced drilling break.

4 March 1974 - Released water truck 0800. Lay down drill collars. Set plugs:

50 sacks	3100 - 2900
50 sacks	2525 - 2325
50 sacks	1775 - 1600 (show)
10 sacks	to surface

Last plug down 0900

Lay down drill pipe. Prep to tear down. Cut off aerator baffle tank.

4 March 1974 - cont'd

BIT REVIEW - cont'd

Bit #	Co.	Size	Type	Depth out	Ft. Cut	Hrs.
21	STC	6 1/4	F SS	4864	429	40 1/4
22	"	"	SS 5	5296	437	41 1/2
23	"	"	F 4	5455	159	23
24	"	"	F 4	5723	268	21 1/2
25	Sec.	"	S-88	6000	277	31

Finish teardown. Rig released 2000 hrs.

Compiled and submitted by,

_____

Geological Engineer

GSC:gb